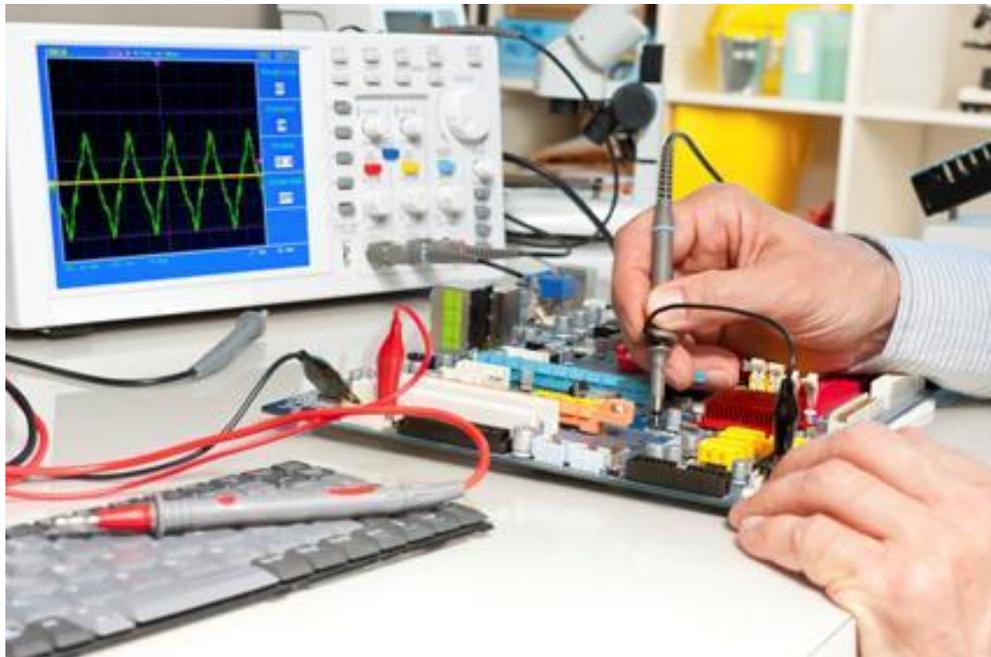


FACULDADE SENAI ROBERTO SIMONSEN

Pós-Graduação

Sistemas Eletroeletrônicos Industriais Automatizados

Circuitos Eletroeletrônicos



AULA 6: Defeitos apresentados nos principais componentes eletrônicos.

Profº: Hovacker.

São Paulo
2016





Defeitos em componentes eletrônicos:

- Mundo Real X Mundo Ideal;
- Aprendemos a calcular as grandezas que DEVERIAM surgir, mas avançando nos estudos, precisamos entender como os componentes se comportam em casos de falhas (defeitos reais).



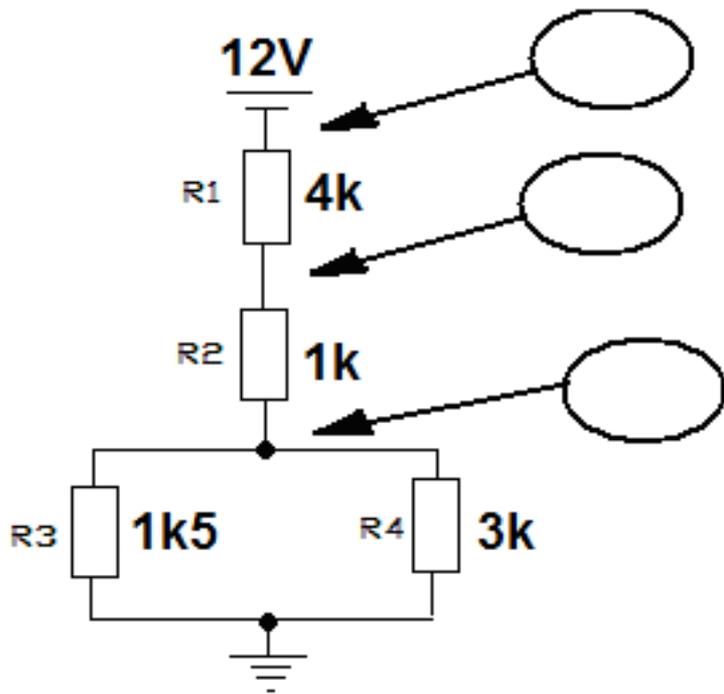


Defeitos em Resistores:

- Aberto
- Alterado (para mais)

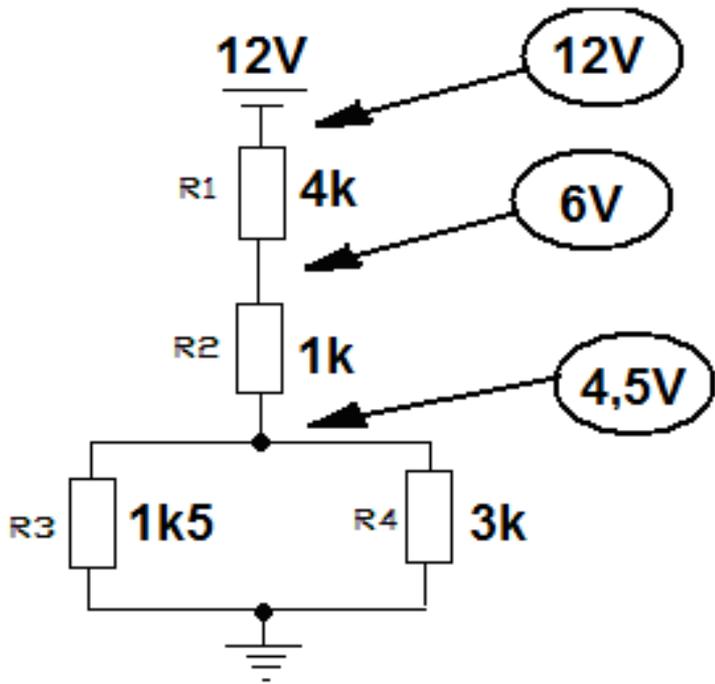


Defeitos em Resistores:





Defeitos em Resistores:

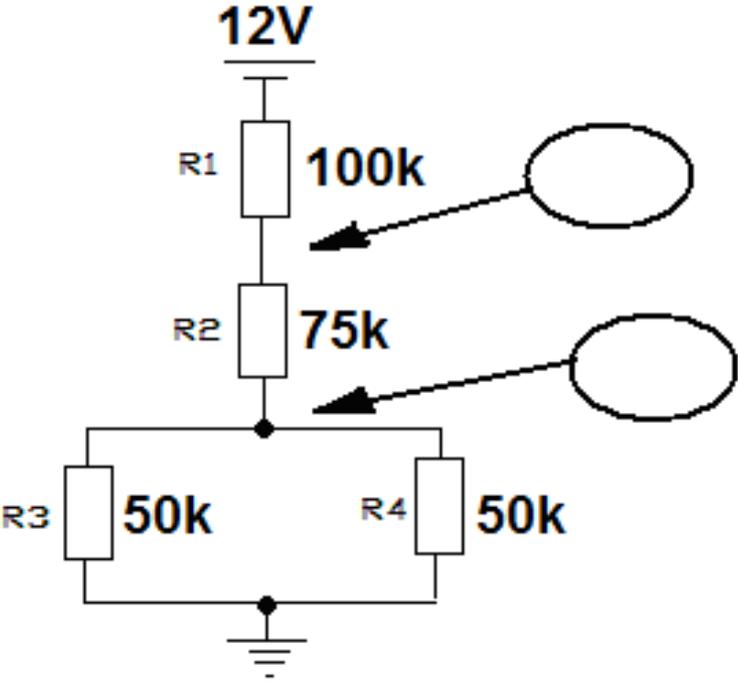


R3 aberto



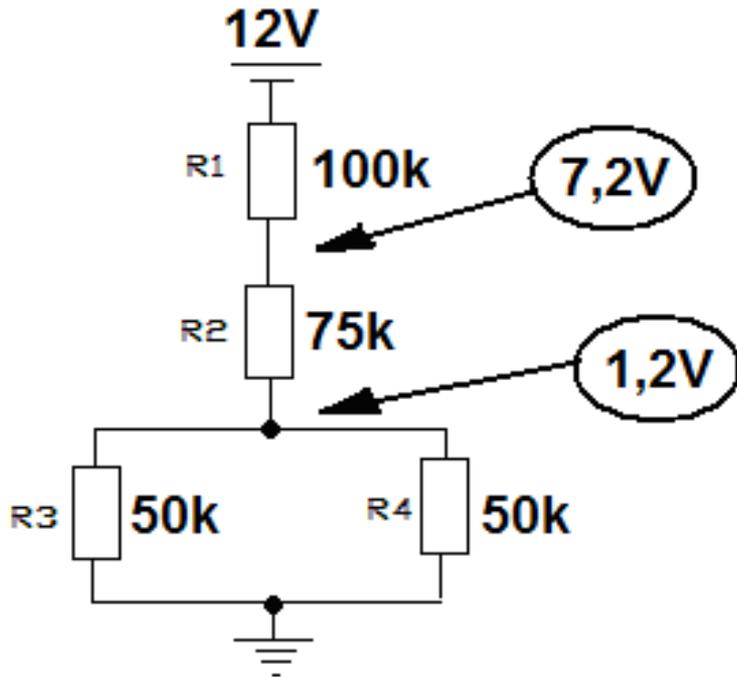


Defeitos em Resistores:





Defeitos em Resistores:

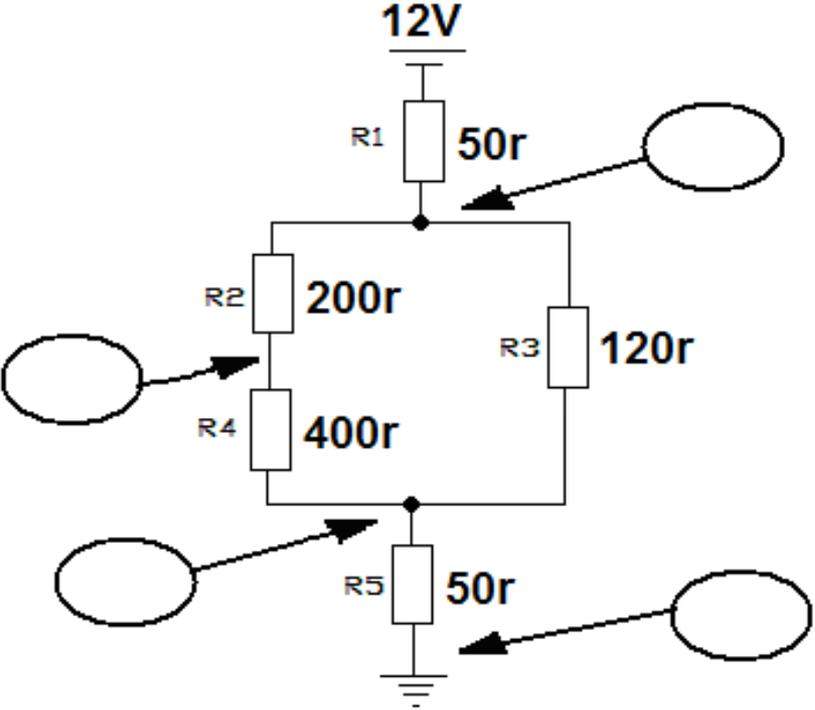
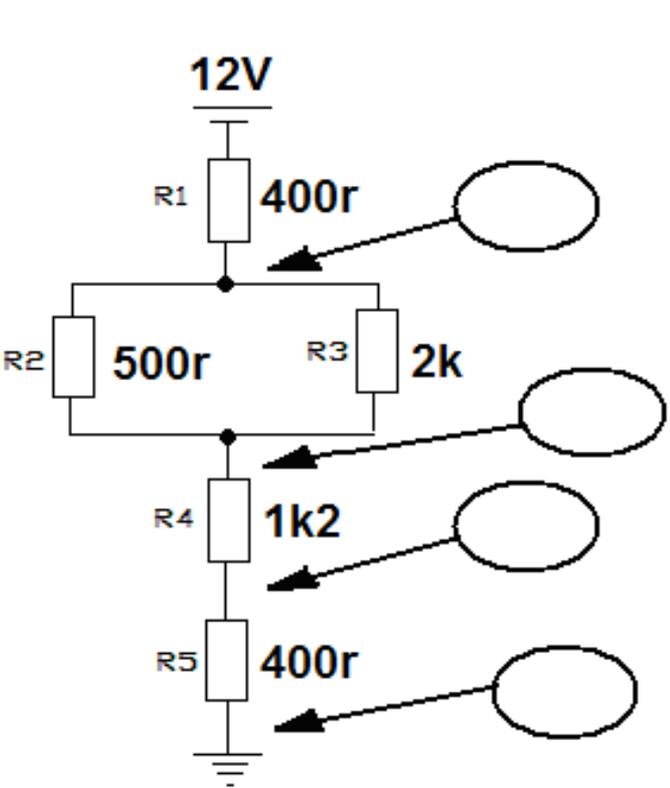


R2 alterado
para 125k



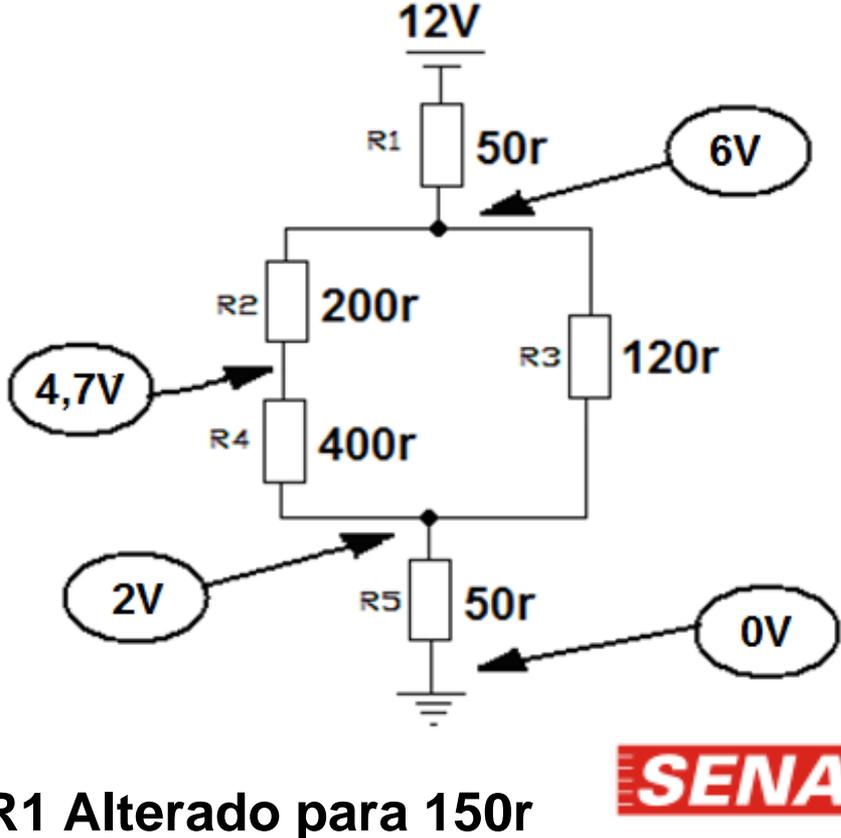
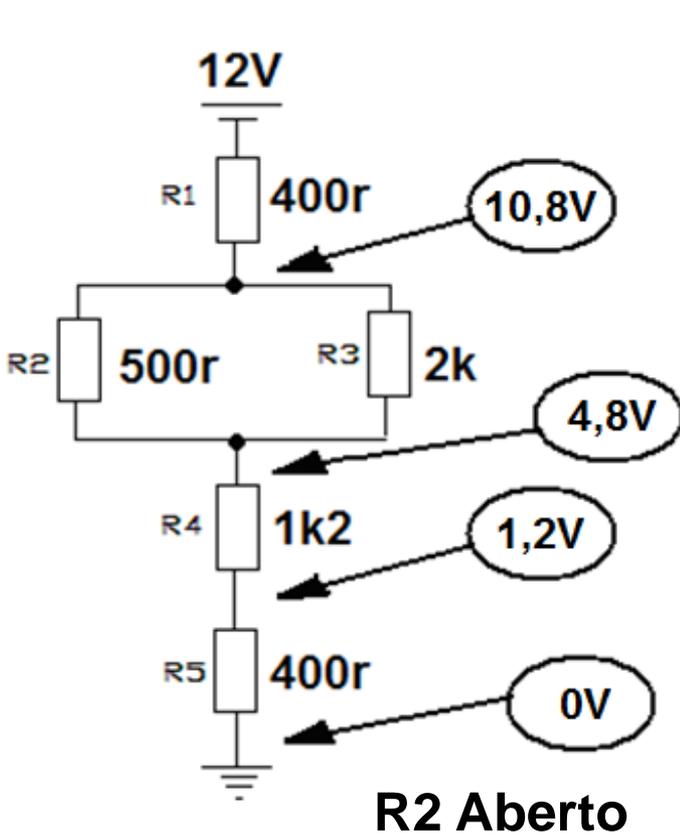


Defeitos em Resistores:





Defeitos em Resistores:



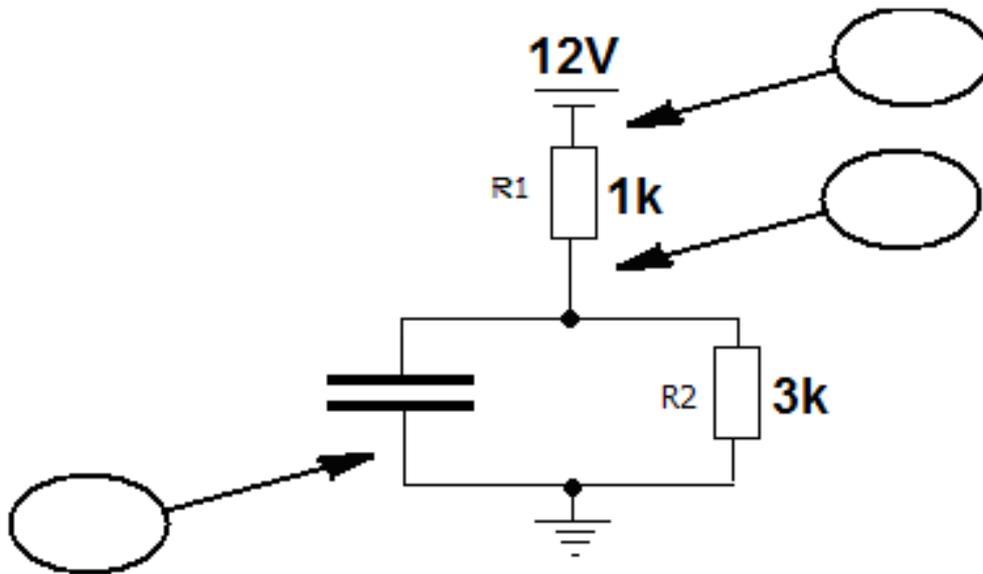


Defeitos em Capacitores:

- Curto
- Fuga

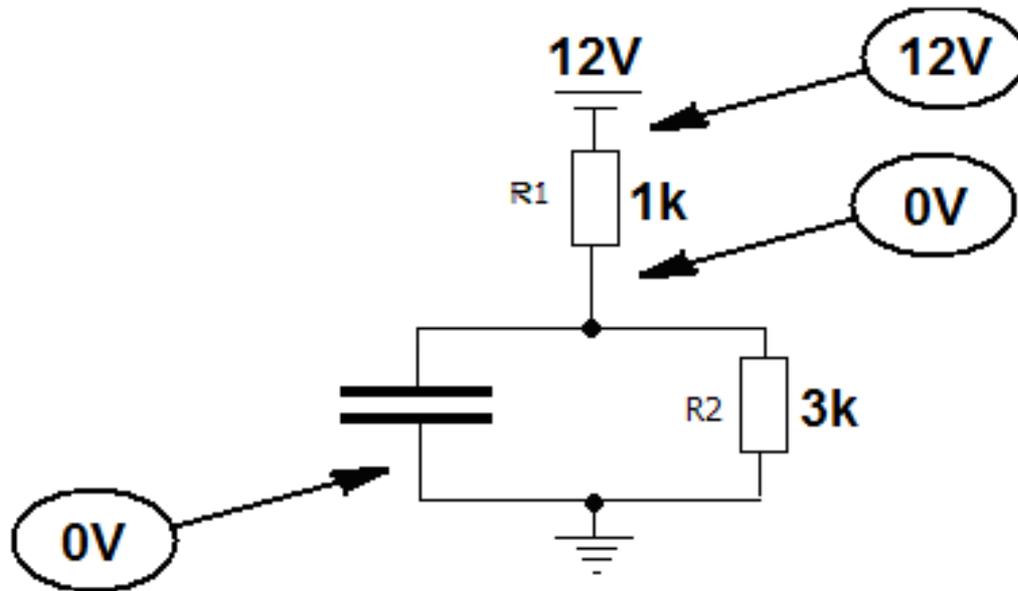


Defeitos em Capacitores:





Defeitos em Capacitores:

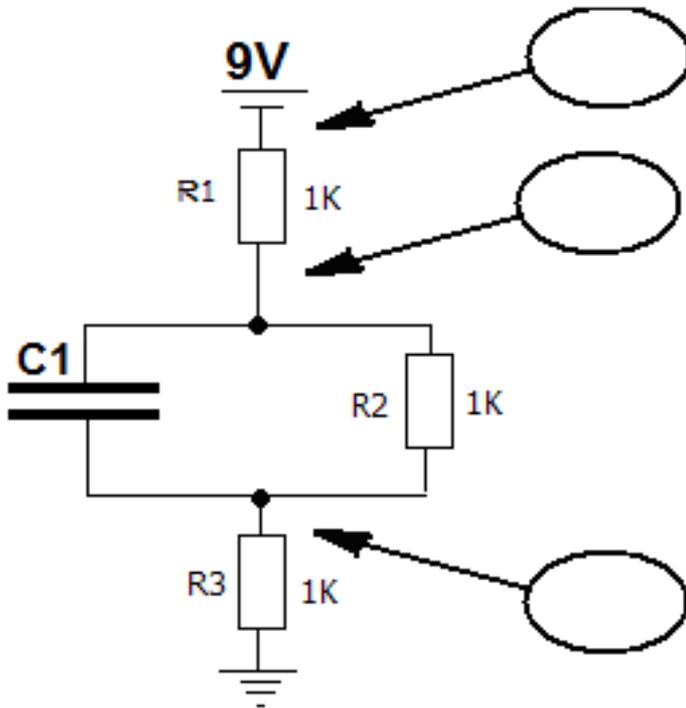


C1 em curto



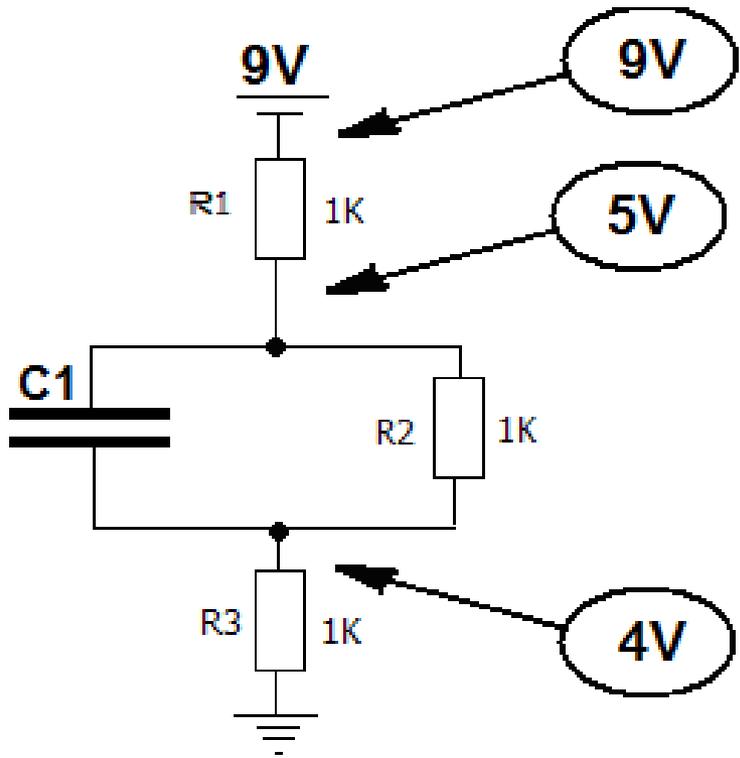


Defeitos em Capacitores:





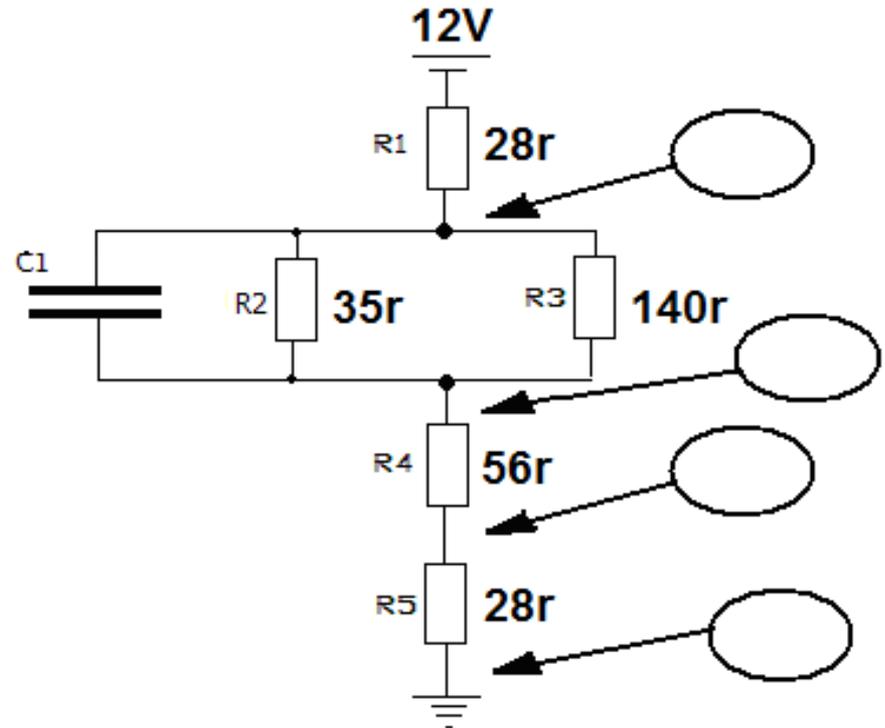
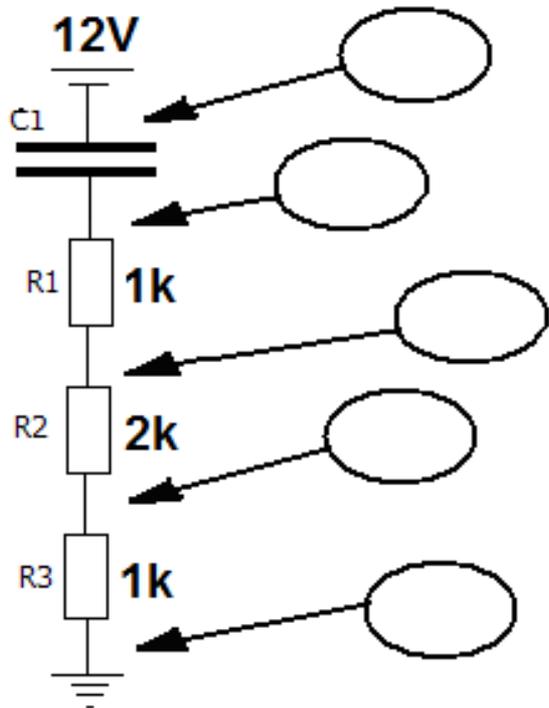
Defeitos em Capacitores:



SENAI



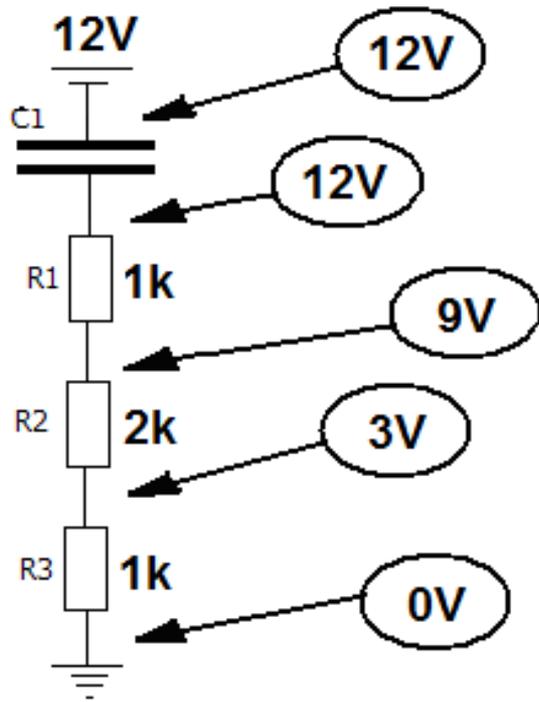
Defeitos em Capacitores:



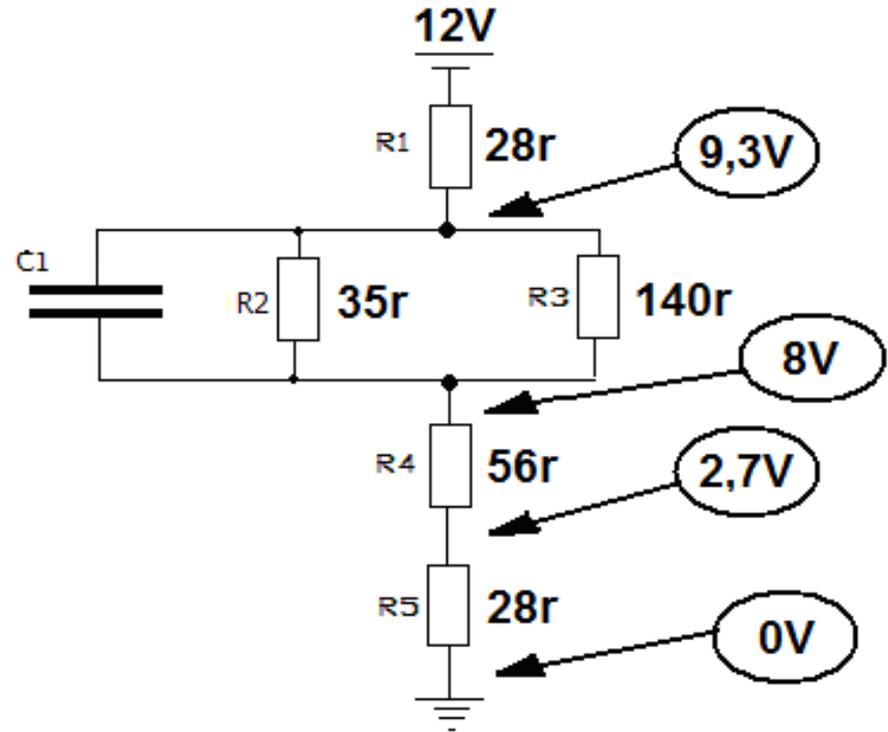
SENAI



Defeitos em Capacitores:



C1 em curto



C1 em fuga (28r)



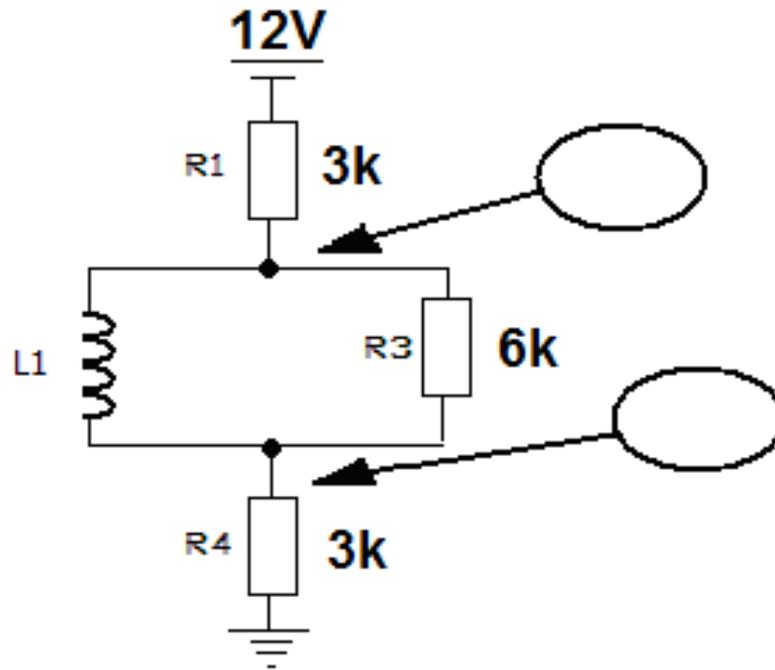


Defeitos em Indutores:

- Aberto

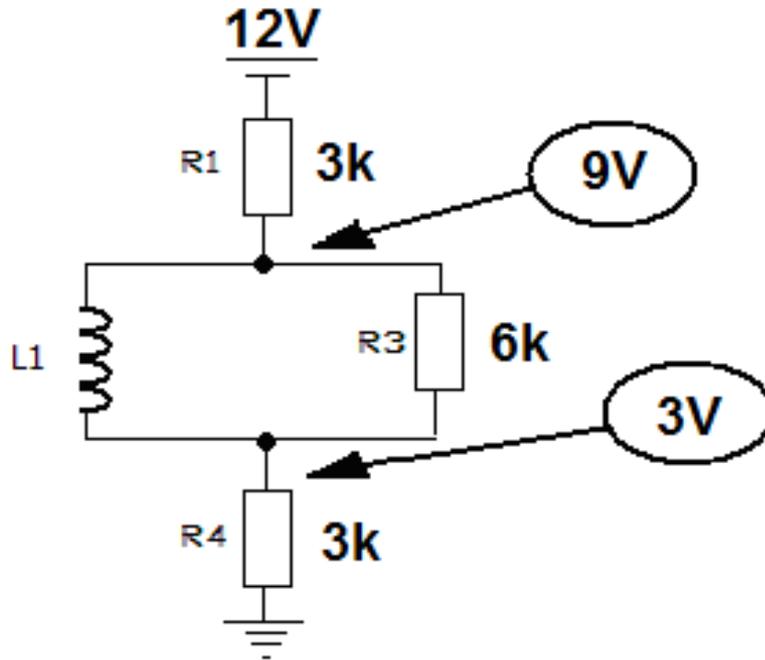


Defeitos em Indutores:





Defeitos em Indutores:

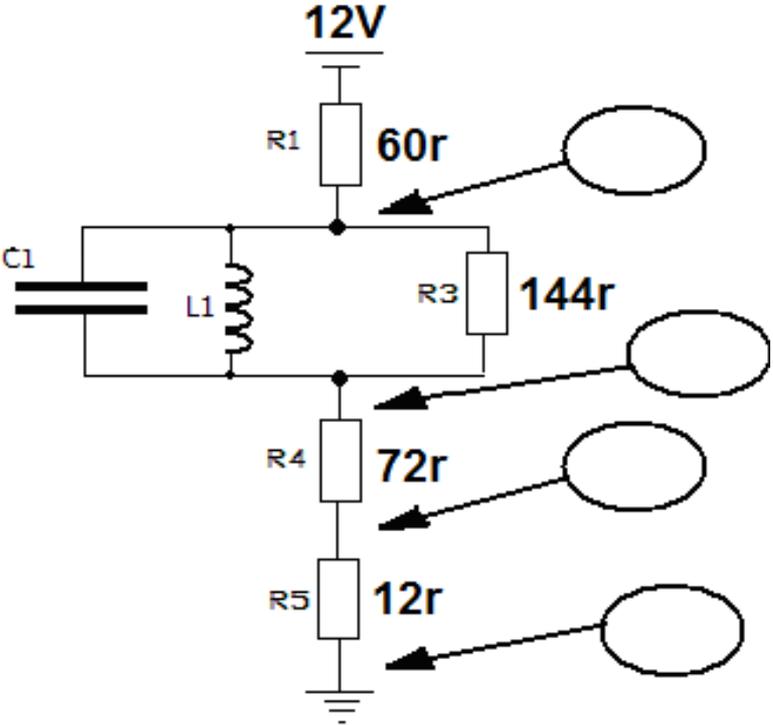
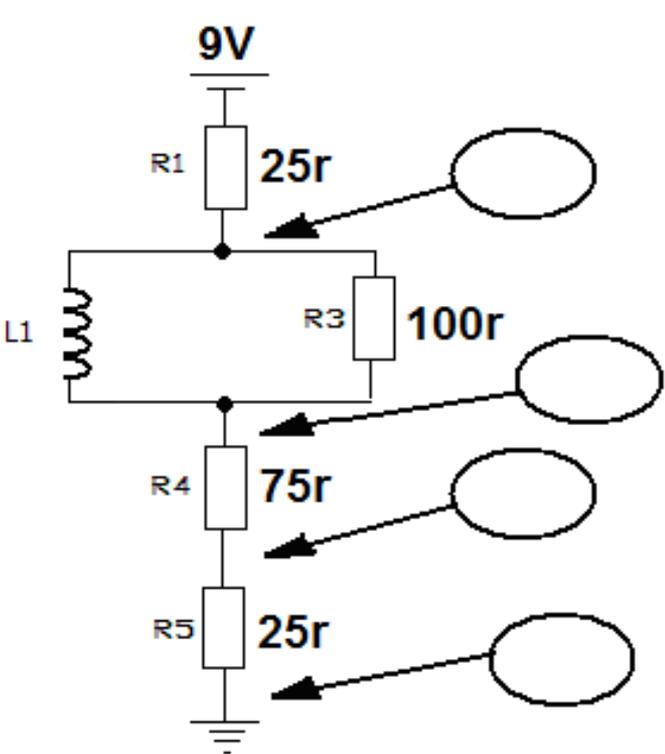


L1 Aberto



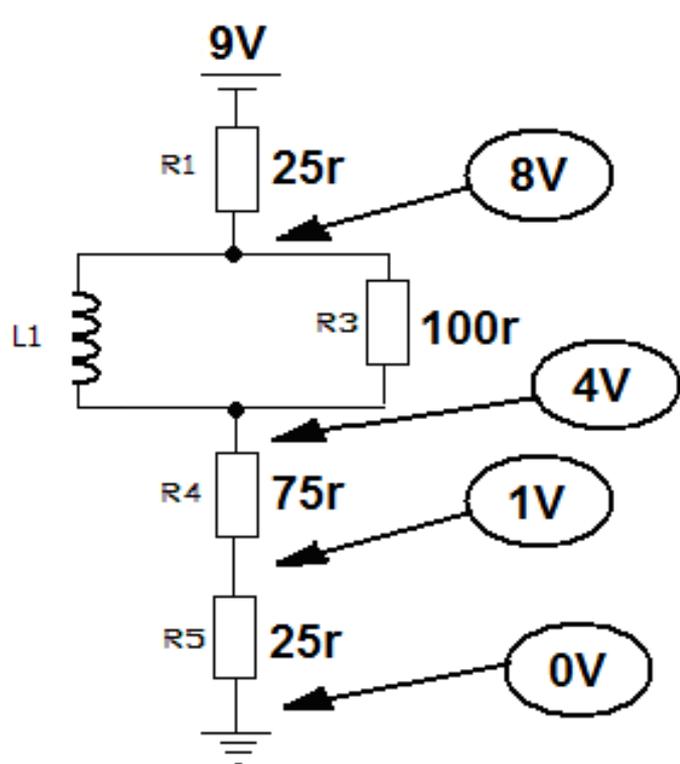


Defeitos em Indutores:

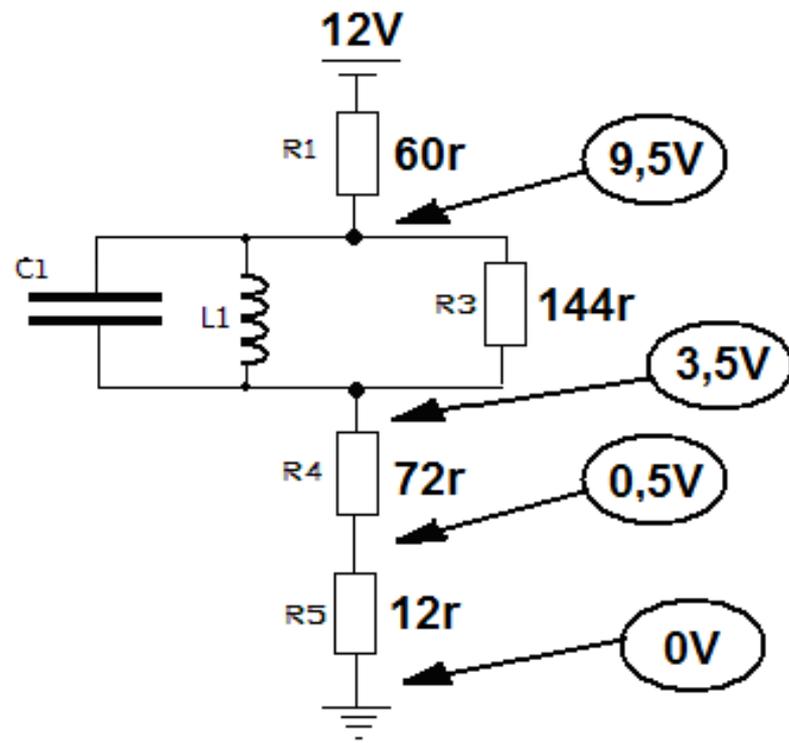




Defeitos em Indutores:



L1 Aberto



L1 Aberto



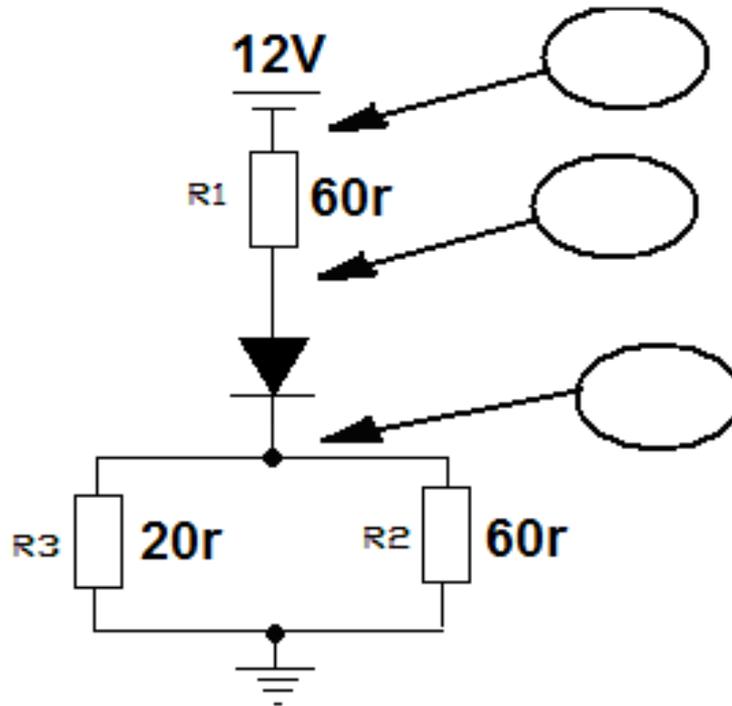


Defeitos em Diodos:

- Aberto
- Alterado
- Curto
- Fuga

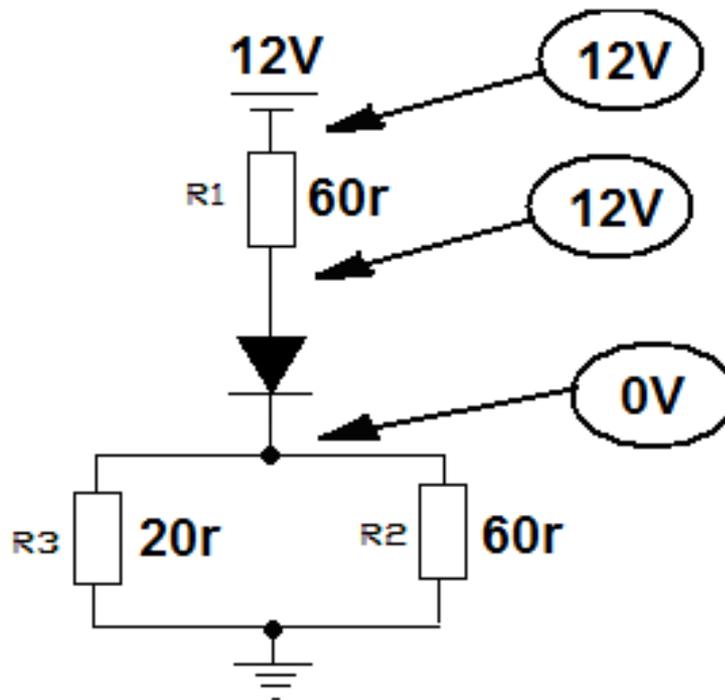


Defeitos em Diodos:





Defeitos em Diodos:

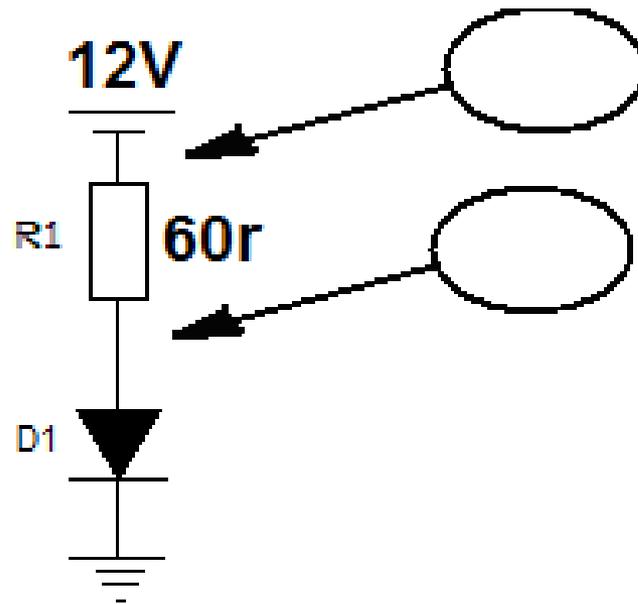


D1 Aberto



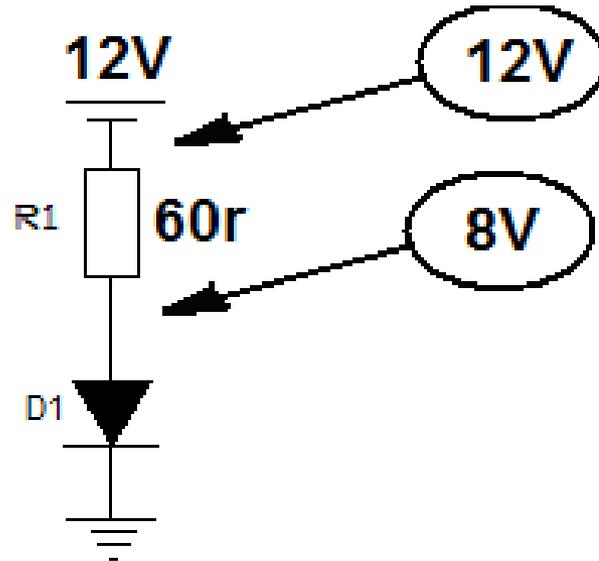


Defeitos em Diodos:





Defeitos em Diodos:

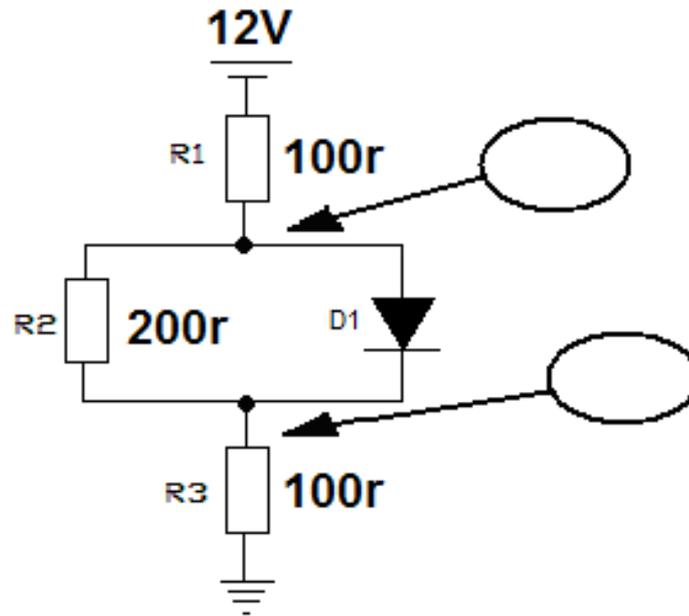


D1 Alterado



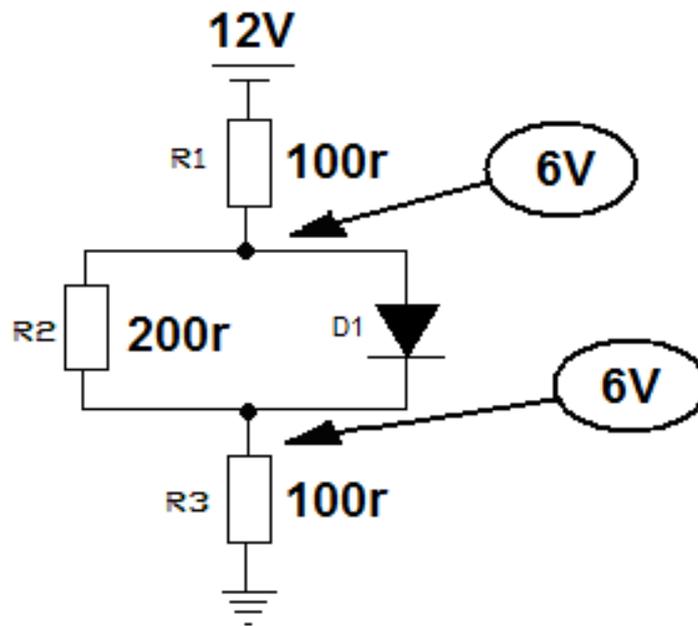


Defeitos em Diodos:





Defeitos em Diodos:

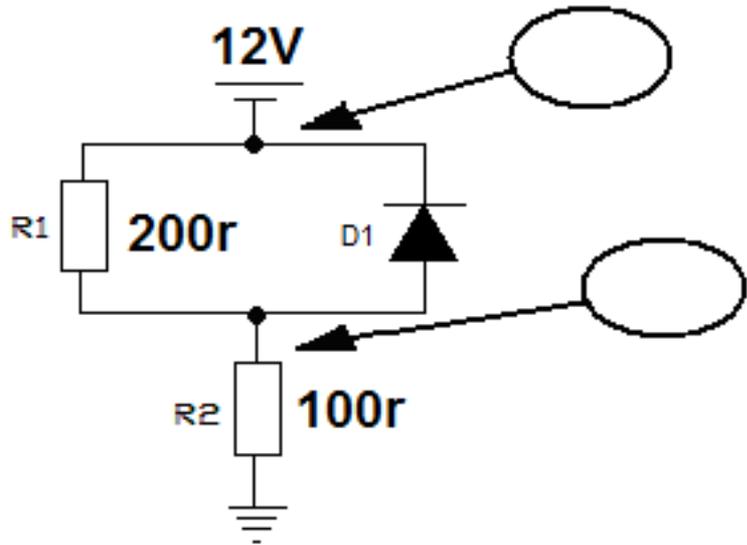


D1 em curto



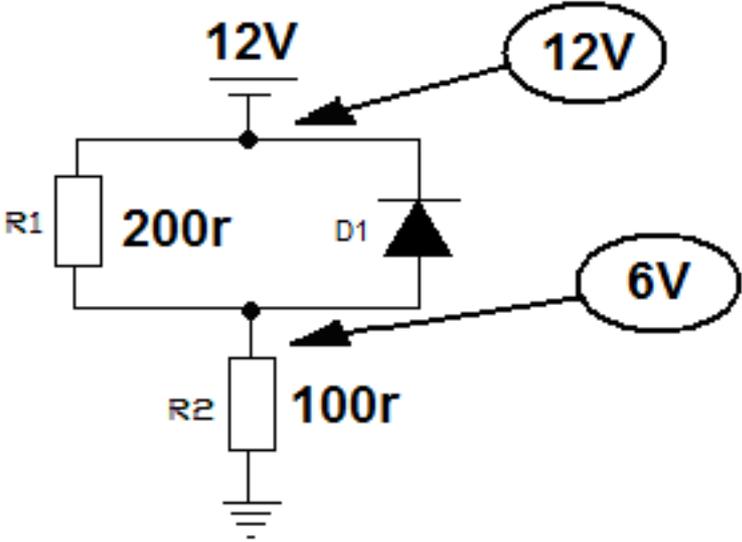


Defeitos em Diodos:





Defeitos em Diodos:

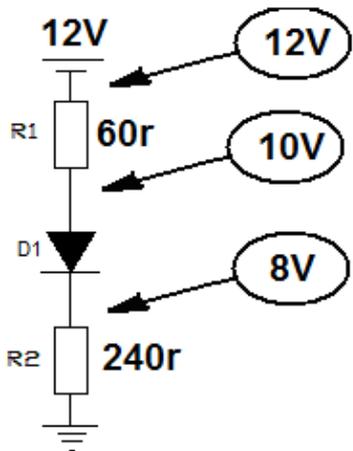


D1 em fuga

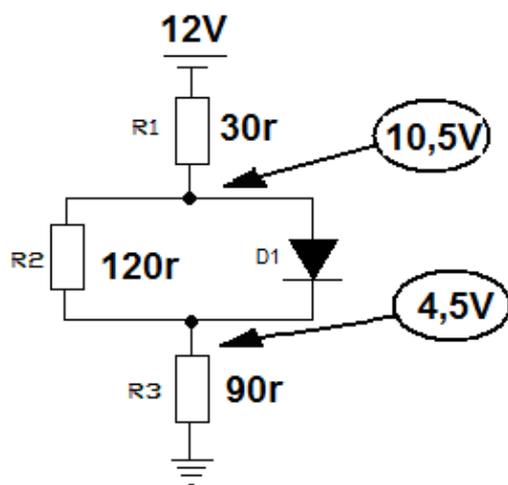




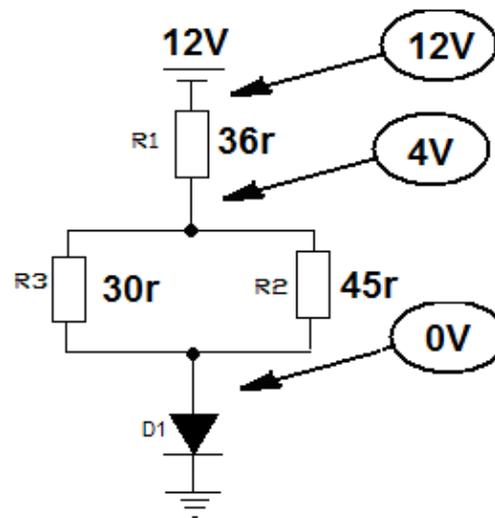
Defeitos em Diodos:



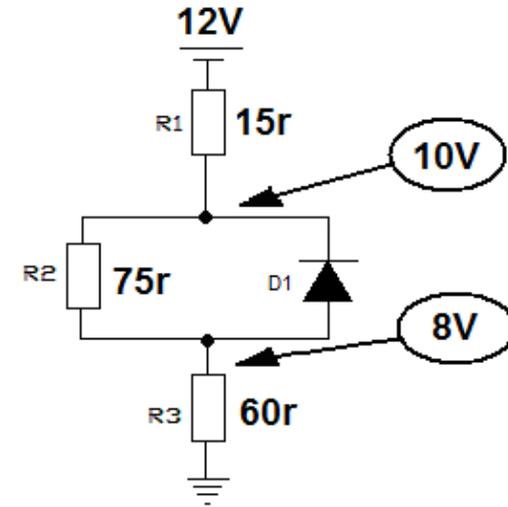
D1 Alterado



D1 Aberto



D1 em Curto



D1 em Fuga



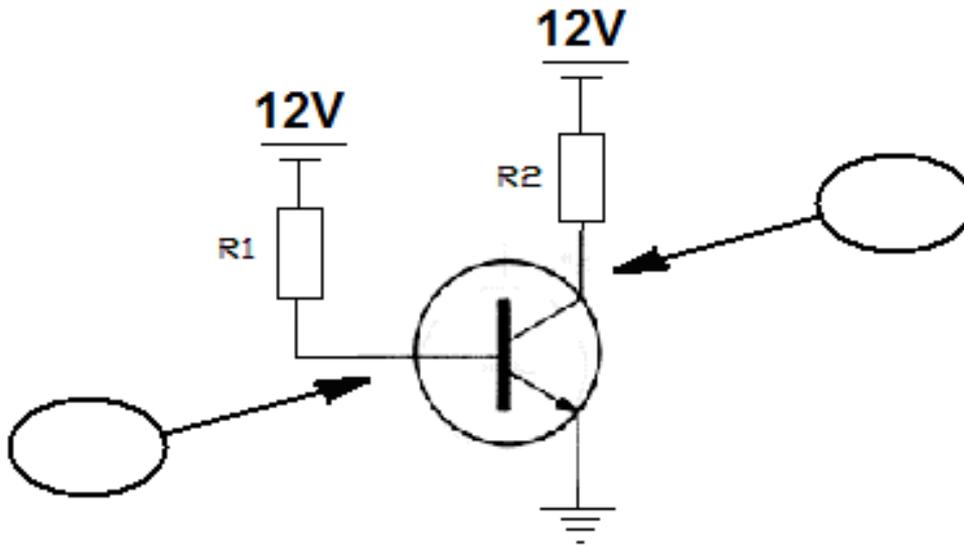


Defeitos em Transistores:

- Aberto B/E
- Aberto C/E
- Curto B/E
- Curto C/E
- Curto C/B
- Curto total
- Fuga B/E
- Fuga C/E
- Fuga C/B
- Falta de ganho

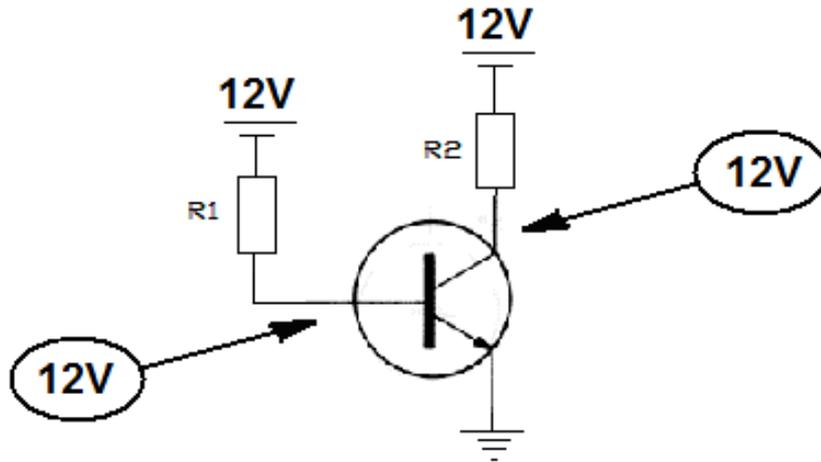


Defeitos em Transistores:

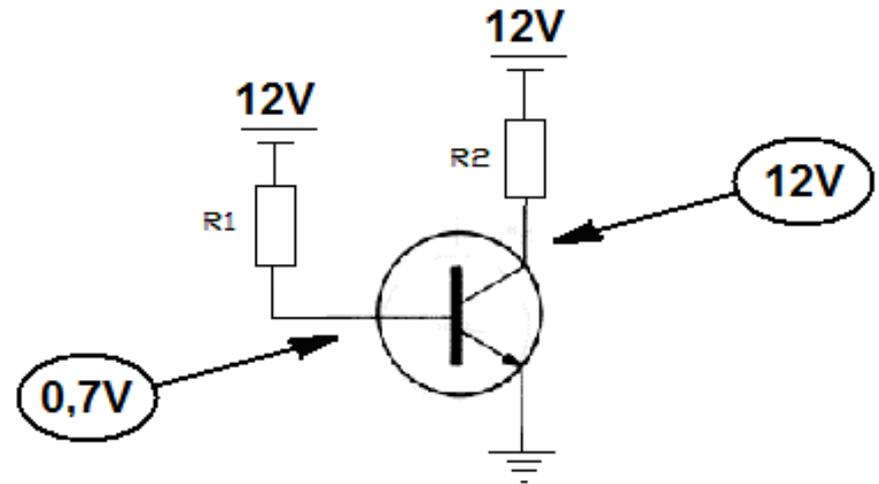




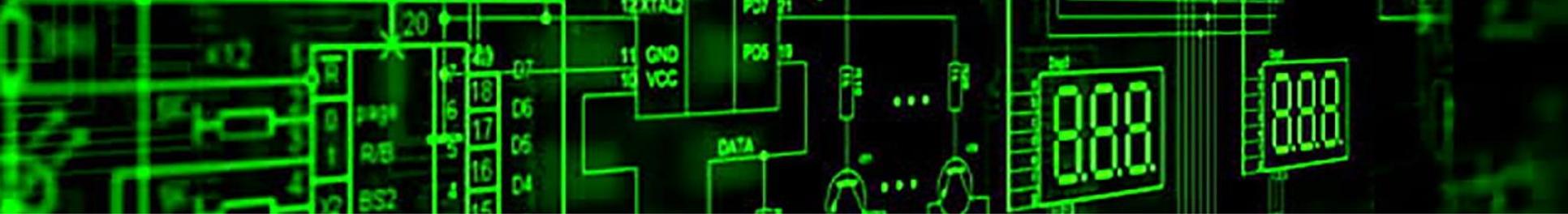
Defeitos em Transistores:



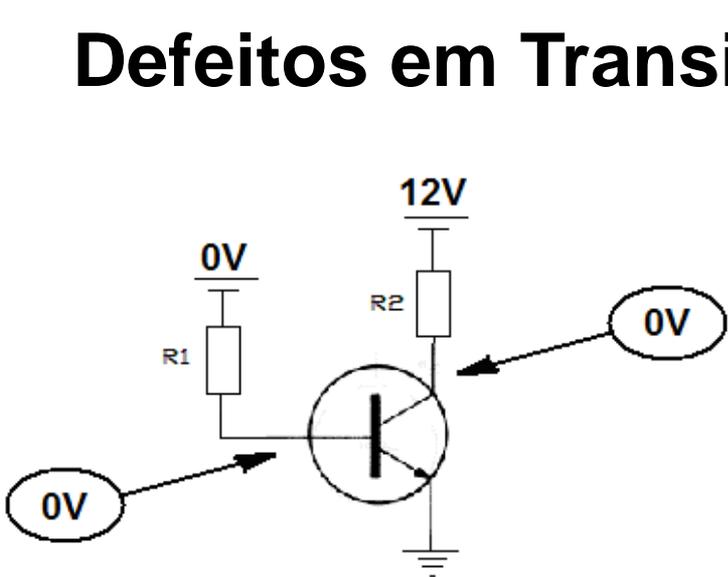
B/E Aberto



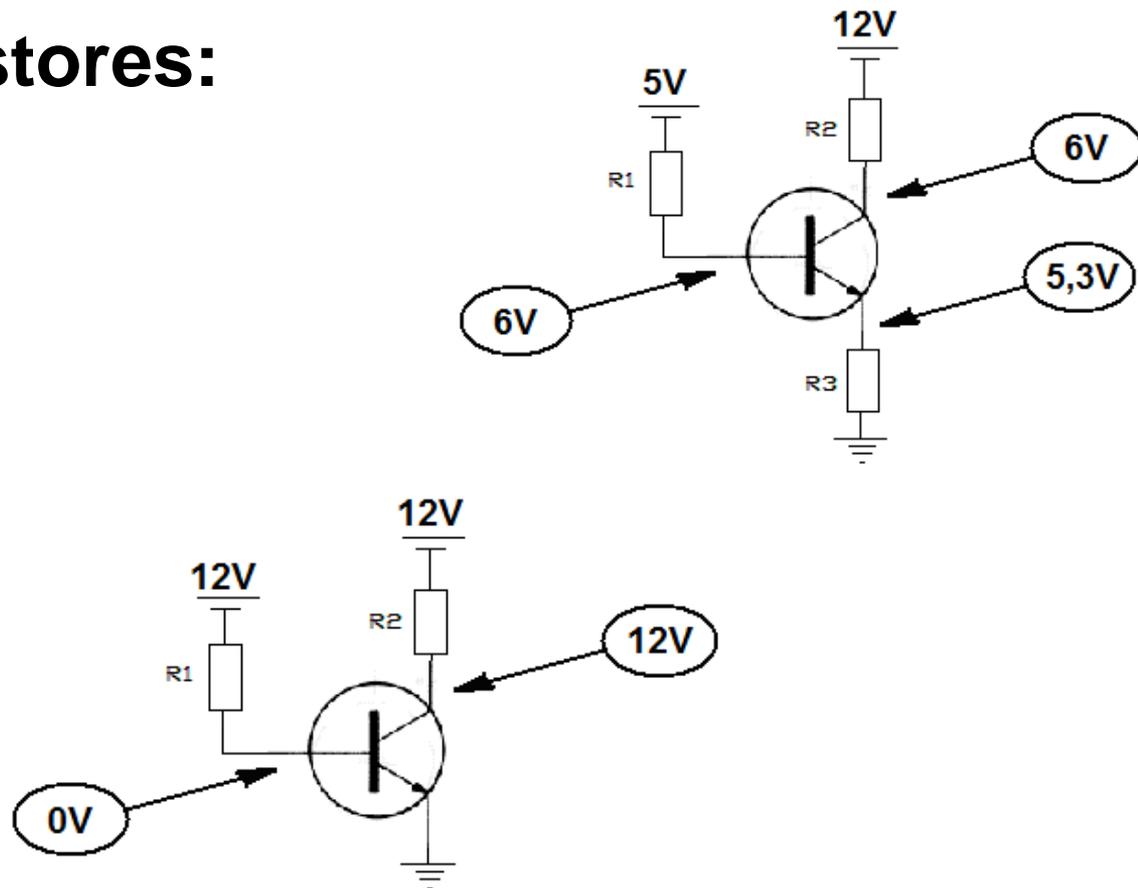
C/E Aberto



Defeitos em Transistores:



C/E em curto



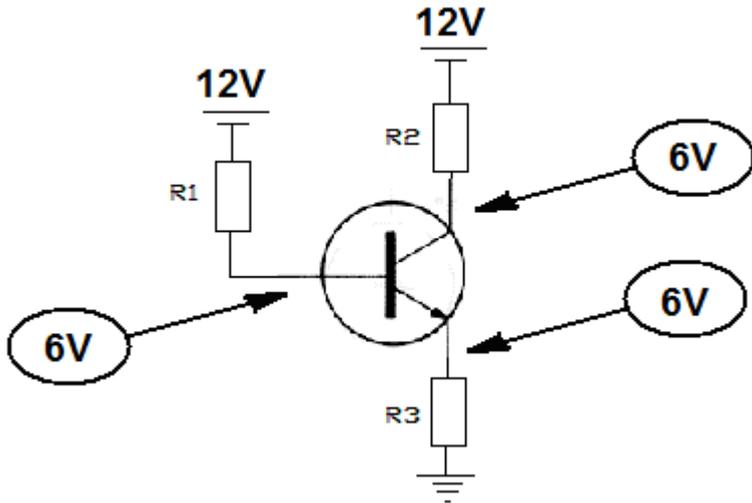
B/E em curto

C/B em curto

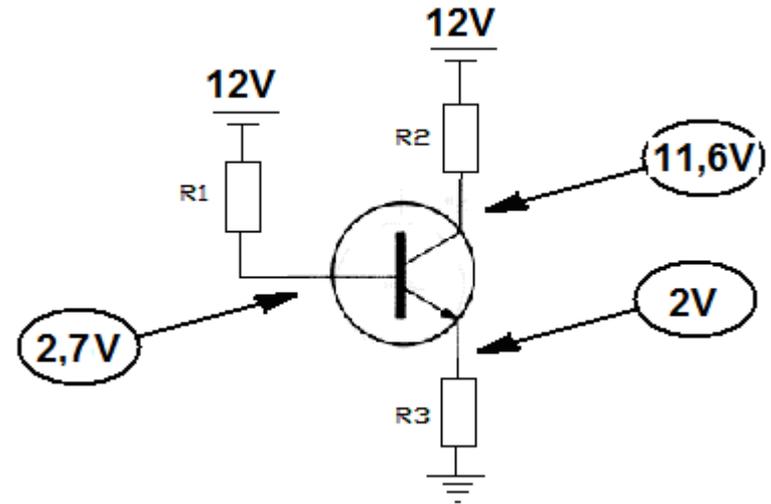




Defeitos em Transistores:



Curto Total

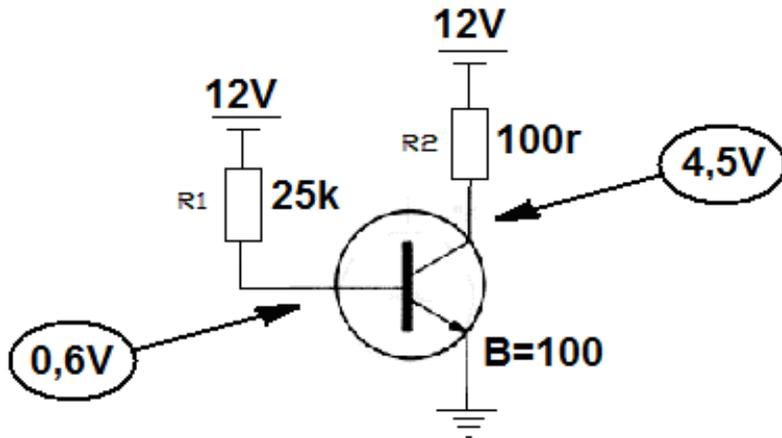
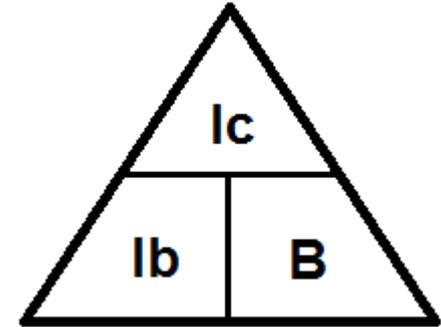


Falta de ganho

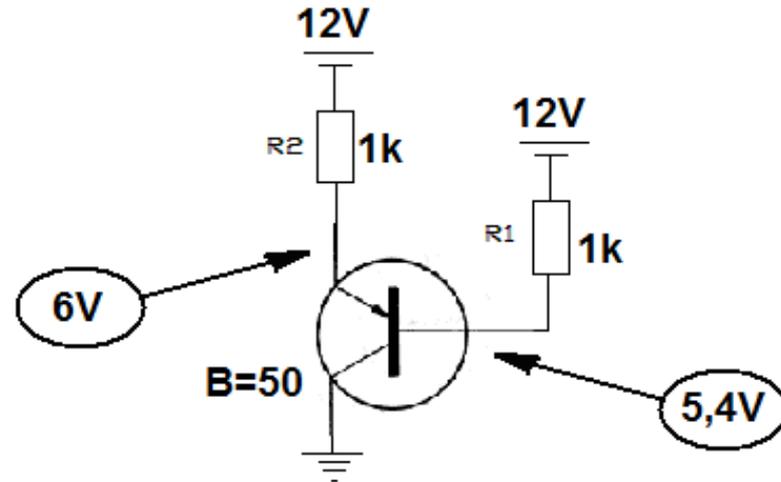




Defeitos em Transistores:



Fuga C/E



Fuga C/B





DÚVIDAS?





Atividade do dia!

- Analisar os defeitos nos circuitos propostos;
- Indicar o componente bem como seu respectivo defeito executando o relatório 5.





Obrigado!

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